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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,962	12/30/1999	FRANK JOSEPH PENNISI, JR	9D-EC-19319	7121 .
75	90 11/29/2006		EXAMINER	
John S. Beulick			VAN DOREN, BETH	
Armstrong Teasdale LLP One Metropolitan Square, Suite 2600			ART UNIT	PAPER NUMBER
St. Louis, MO			3623	
•			DATE MAILED: 11/29/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/475,962	PENNISI, JR, FRANK JOSEPH				
Office Action Summary	Examiner	Art Unit				
	Beth Van Doren	3623				
The MAILING DATE of this communication ap	pears on the cover sheet wi		ess			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTANCE - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a reduced will apply and will expire SIX (6) MON te. cause the application to become AR	CATION. eply be timely filed THS from the mailing date of this cominate of the cominate of t	, , , , , , , , , , , , , , , , , , ,			
Status						
1) Responsive to communication(s) filed on 01.5	September 2006.					
	s action is non-final.	•				
3) Since this application is in condition for allows	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under			5 m ()			
Disposition of Claims						
4)⊠ Claim(s) <u>1,6,8-17,22,24-33,38 and 40</u> is/are p	pending in the application.					
4a) Of the above claim(s) is/are withdra						
5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,6,8-17,22,24-33,38 and 40</u> is/are r			•			
7) Claim(s) is/are objected to.	gran i de la de la Lande Constitución de la descripción de la decimiente decimiente de la decimiente decimiente de la decimiente decimiente de la decimiente de la decimiente decimiente de la decimiente decimiente decimiente de	· II) 2006 (
8) Claim(s) are subject to restriction and/	or election requirement.	*	· · · · · · · · · · · · · · · · · · ·			
Application Papers						
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9) The specification is objected to by the Examin	•					
10) ☐ The drawing(s) filed onis/are: a) ☐ acc		•				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the E	xaminerNote the attached	Office Action or form P10	-152.			
Priority under 35 U.S.C. § 119		•	•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documen	ts have heen received		4			
2. Certified copies of the priority documen		oplication No				
3. Copies of the certified copies of the price			ace had			
application from the International Burea			ago = <u>.</u> ,			
* See the attached detailed Office action for a list		received.				
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Attachment(s)	·					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	و العداد			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of In	formal Patent Application	<u>.,</u>			
Paper No(s)/Mail Date	6) Other:	_•				
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office A	action Summary	Part of Paper No./Mail Date	20061121			

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DETAILED ACTION

1. The following is a Final Office action in response to communications received 09/01/2006. Claims 1, 8, 17, and 33 are amended. Claims 3-4, 19-20, and 35-36 have been canceled. Claims 1, 6, 8-17, 22, 24-33, 38, and 40 are pending in this application.

Response to Amendment

2. Applicant's amendment to claim 8 is sufficient to overcome the claim objections set forth in the previous office action.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1, 6, 8-17, 22, 24-33, 38, and 40 are rejected under 35 U.S.C. 101 because the claimed invention is directed towards non-statutory subject matter. In order to be considered statutory, the claimed invention must produce a useful, concrete, and tangible result. An invention that fails to produce a tangible result is one that involves no more than the manipulation of an abstract idea. In order to be concrete, the result must be substantially repeatable or re-produce the same result. The result is useful when there is a real-world practical application.

Claim 1 is directed towards non-statutory subject matter because it lacks tangibility.

Claim 1 recites the steps of updating the respective delivery agent capacity utilization matrix, calculating a zone workload signal for a delivery date, setting capacity flags for delivery dates (including an over capacity and under capacity flag), and predicting capacity utilization.

However, none of these steps produce a functional, real world result as all these steps merely

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manipulate intangible, abstract ideas. Therefore, it is respectfully submitted that claim 1 is directed towards non-statutory subject matter.

Independent claims 17 and 33 recite substantially similar limitations to claim 1 and are therefore also rejected under 35 U.S.C. 101 as being directed towards non-statutory subject matter for the same reasons set forth above.

Claims 6 and 8-16, 22, 24-32, 38, and 40 depend from claims 1, 17, and 33 and therefore are also rejected under 35 USC 101 based on the same reasoning set forth above.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1, 6, 8-17, 22, 24-33, 38, and 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, for the following reasons:

Claim 1 recites "calculating a workload signal for the delivery date approved by the buyer, [...] the new capacity value equals (old capacity value + (number of filled slots)/(zone maximum))". It is not clear what is specifically being claimed since the old capacity value and the number of filled spots appear to represent substantially the same value (i.e. the old capacity value represents the volume used, and the number of filled slots also represent the amount of volume used). Based on the language of the claim, examiner believes the number of filled slots is supposed to represent the number of slots filled by the approving buyer's current order.

Therefore, examiner believes that the limitation should more appropriately be --calculating a workload signal for the delivery date approved by the buyer, [...] the new capacity value equals (old capacity value + (<u>number of slots currently filled by the approval of the buyer</u>)/(zone maximum))--. Clarification and correction is required.

Claim 1 further recites "setting a capacity flag for each delivery date by comparing the sum of capacity values [...], the sum of capacity values equals the sum of capacity values corresponding to a predetermined number of preceding delivery dates". It is not specifically clear as to what these capacity values are and how they relate to the rest of claim 1. Claim 1 recites "the capacity utilization", "the delivery zone capacity", "a capacity utilization matrix", and "the new capacity value". It is not clear if the "capacity values" refers to one of these values or to some other value measure of capacity. Based on the claim language, examiner believes that the capacity value relates to the new capacity value in some way, such as the final value of the "new capacity value" of the delivery agent when it delivers all of the contained orders.

Language to this effect or other clarification is required.

Further, with regards to this "setting a capacity flag" limitation as well as the "setting an over capacity flag" and "setting an under capacity flag" limitations, it is unclear as to how these capacity flags are specifically used and how they relate to the rest of claim 1. This rejection flows from the 35 USC 101 rejections set forth above, where it was asserted that this step lacked a tangible result. Since it is unclear what the result is, it is also unclear as to what the applicant is trying to distinctly claim by these limitations. Clarification is required.

Finally, claim 1 recites "predicting the capacity utilization of the goods delivery system by determining whether the zone workload signal for a predetermined number of days is

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increasing or decreasing". First, it is unclear as to how the volume used would decrease (instead of merely remaining constant). Second, it is unclear as to what capacity the "capacity utilization" is referring to and thus how it is being measured or judged. As discussed above, capacity occurs in several ways throughout the claim. The only specific antecedent basis found for "the capacity utilization" occurs in the preamble of the claim. Thus, it is not clear what specific values are being used to judge the capacity utilization of the system. Based on the claim language, examiner believes that this overall capacity utilization relates to the total capacity used for the total of the delivery agents in the system, the total capacity for each agent relating to the "new capacity value" in some way, such as the final value of the "new capacity value" when the order is shipped for each agent. Clarification is required.

Thirdly, it is not specifically clear as to how this prediction relates to and is used by the rest of this claim. This is further discussed above in the 35 USC 101 rejections, with the lack of tangible result. It is not specifically clear what the "predicting" is, what it represents, or how it would be used. Clarification is required.

Independent claims 17 and 33 recite substantially similar limitations to claim 1 and are therefore also rejected under 35 U.S.C. 112, second paragraph, for the same reasons set forth above.

Claims 6 and 8-16, 22, 24-32, 38, and 40 depend from claims 1, 17, and 33 and therefore are also rejected under 35 USC 112, second paragraph.

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Allowable Subject Matter

7. Claims 1, 6, 8-17, 22, 24-33, 38, and 40 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. 112, 2nd paragraph, and 35 U.S.C. 101 set forth in this Office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Asthana et al. (U.S. 5,265,006) discloses predicting needs for delivery vans in service regions and tracking capacity and utilization of delivery vans.

Spicer (U.S. 5,157,714) teaches tracking available capacity for delivery.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth Van Doren whose telephone number is (571) 272-6737. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

bvd

November 21, 2006

Beth Van Doren Batent Examiner

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